

Figure 2-1. Facilities Identified to be Potentially Affected by NR 428

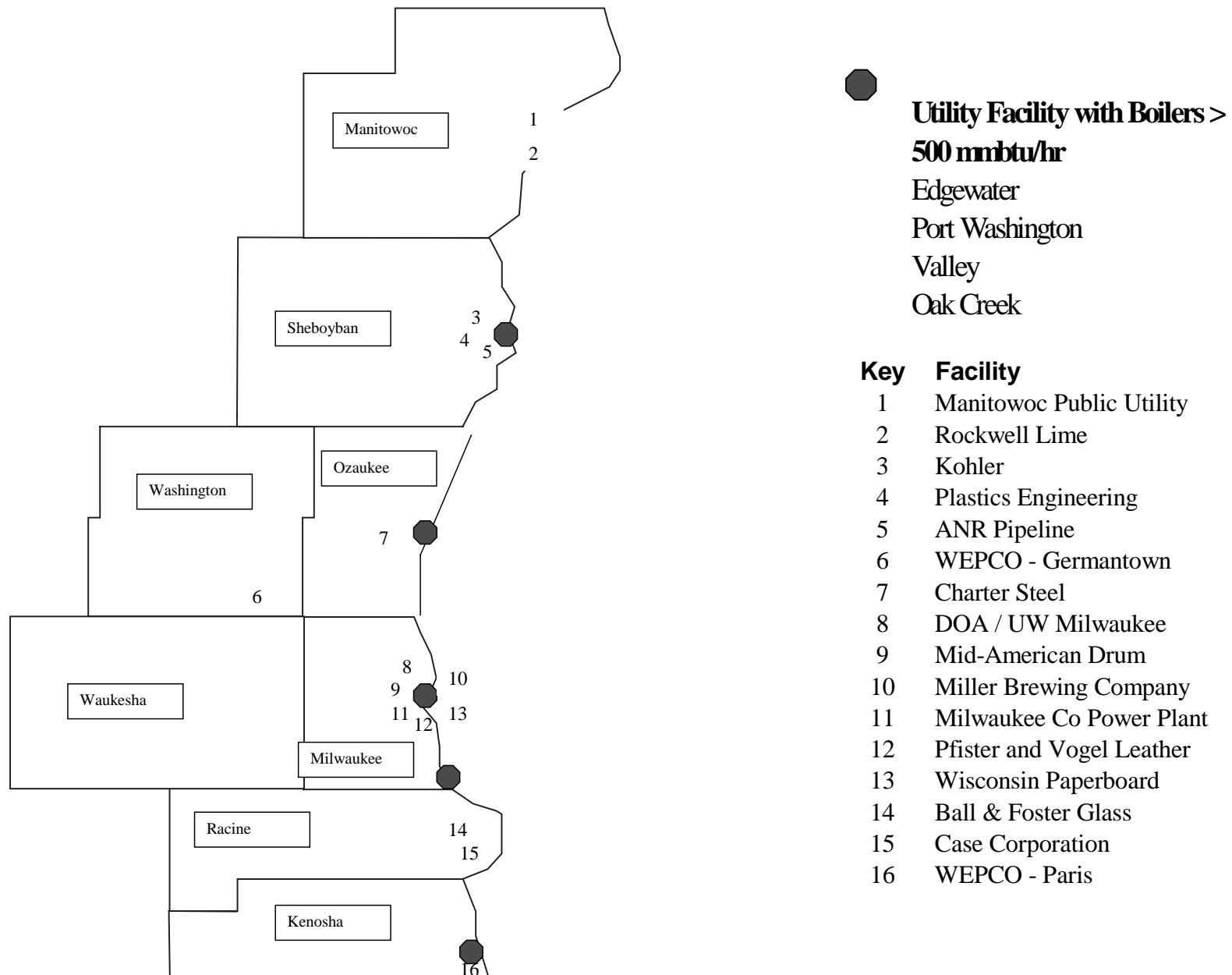


Table 2-5 Electric Utility Boilers Affected by Average System Emission Rate Requirement (Boilers => 500 mmbtu/hr)

Electric Utility System	Facility	County	Unit	2002 Facility NOx (tpd)	2002 Utility NOx (tpd)	Assumed Additional Control Technology	NOx Reduction (tpd)	Estimated System Annual Cost (Million\$)	Estimated System Cost (\$/ton)			
Alliant	Edgewater	Sheboygan	Edge 5	10	43	<i>Overfire Air / SNCR</i> <i>Overfire Air</i>	16	< 1.6 M\$	400			
			Edge 4	27								
			Edge 3	5								
WEPCO	Oak Creek	Milwaukee	OC 8	8	104	Low NOx Burners	22	up to 6.5 M\$	1,300			
			OC 7	9		Low NOx Burners						
			OC 6	9								
			OC 5	8								
	Pleasant Prairie	Kenosha	PP 1	27		<i>One SCR and LNB @ PP or LNBs @ PP and multiple LNB on other Units</i>						
	PP 2	25										
	Port Washington	Ozaukee	PW 3	2								
			PW 1	2								
			PW 2	3								
			PW 4	2								
Valley	Milwaukee		Val 2	3								
			Val 2	3								
			Val 1	2								
			Val 1	2								
Total	5 facilities		17 units	147	147		38	up to 8.1 M\$	950			

Table 2-6 Identified Facilities Potentially Affected by Unit Specific Performance Standards for Existing Sources

Key	County	Source	Device	Current Emission Rate (lbs/mmbtu)	Regulatory Threshold	Proposed Requirement (lbs/mmbtu)*	Anticipated Additional Control	2002 Esitmated Reduction (tons/day)	
1	Manitowoc	Manitowoc Public Utility	Coal Stoker Boiler	0.54	75 mmbtu/hr	Optimization	Combustion Monitoring	0.34	
			Coal Stoker Boiler	0.53	75 mmbtu/hr	Optimization	Combustion Monitoring	0.29	
			Coal Stoker Boiler	0.53	75 mmbtu/hr	Optimization	Combustion Monitoring	0.21	
			Coal Fluidized Boiler	0.11	100 mmbtu/hr	0.20		-	
2		Rockwell Lime	Lime Kiln	0.14	75 mmbtu/hr	Optimization	Combustion Monitoring	0.06	
3	Sheboygan	Kohler	Natural Gas Boiler	0.14	75 mmbtu/hr	Optimization	Combustion Monitoring	0.01	
4		Plastics Engineering	Natural Gas Boiler	0.14	75 mmbtu/hr	Optimization	Combustion Monitoring	0.01	
5		ANR Pipeline	IC Engine	1.8 gr/hp	2000 hp	6.0 gr/hp		-	
6	Washington	WEPCO – Germantown	Combustion Turbine	0.72	50 MW	0.14	LNB (already installing)	0.09	
			Combustion Turbine	0.72	50 MW	0.14	LNB (already installing)	0.05	
			Combustion Turbine	0.72	50 MW	0.14	LNB (already installing)	0.03	
			Combustion Turbine	0.72	50 MW	0.14	LNB (already installing)	0.10	
7	Ozaukee	Charter Steel	Metal Working Furnace	0.14	100 mmbtu/hr	0.10	Low NOx Burner	0.03	
8	Milwaukee	DOA / UW Milwaukee	Natural Gas Boiler	0.14	75 mmbtu/hr	Optimization	Combustion Monitoring	0.01	
9		Mid-American Drum	Metal Working Furnace	1.5	100 mmbtu/hr	0.10	Low NOx Burner	1.23	
10		Miller Brewing Company	Natural Gas Boiler	0.42	100 mmbtu/hr	0.10	Low NOx Burner	0.12	
			Natural Gas Boiler	0.42	100 mmbtu/hr	0.10	Low NOx Burner	0.12	
			Natural Gas Boiler	0.42	75 mmbtu/hr	Optimization	Low NOx Burner	0.12	
			Natural Gas Boiler	0.42	75 mmbtu/hr	Optimization	Low NOx Burner	0.12	
11		Milwaukee Co Power Plant	Coal Stoker Boiler	0.54	75 mmbtu/hr	Optimization	Combustion Monitoring	0.18	
			Coal Stoker Boiler	0.54	75 mmbtu/hr	Optimization	Combustion Monitoring	0.17	
			Coal Stoker Boiler	0.54	75 mmbtu/hr	Optimization	Combustion Monitoring	0.16	
12		Pfister and Vogel Leather	Natural Gas Boiler	0.14	75 mmbtu/hr	Optimization	Combustion Monitoring	0.01	
13		Wisconsin Paperboard	Natural Gas Boiler	0.35	100 mmbtu/hr	0.10	Low NOx Burner	0.37	
14	Racine	Ball & Foster Glass	Glass Furnace	0.93	75 mmbtu/hr	Optimization	Combustion Monitoring	0.23	
			Glass Furnace	0.93	75 mmbtu/hr	Optimization	Combustion Monitoring	0.58	
15		Case Corporation	Natural Gas Boiler	0.14	75 mmbtu/hr	Optimization	Combustion Monitoring	0.01	
16	Kenosha	WEPCO – Paris	Combustion Turbine	0.08	50 MW	0.09		-	
			Combustion Turbine	0.08	50 MW	0.09		-	
			Combustion Turbine	0.08	50 MW	0.09		-	
			Combustion Turbine	0.08	50 MW	0.09		-	

	Total	16 Facilities	31 units						4.6
--	-------	---------------	----------	--	--	--	--	--	-----

* Combustion turbine compliance limit is expressed in ppm and is expressed in lbs/mmbtu in this table for comparison